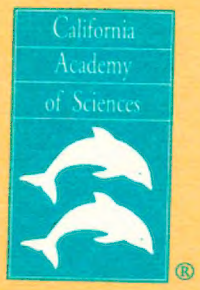
California Academy of Sciences

Annual Report 1995

FOUNDED IN
1853
TO EXPLORE
& EXPLAIN
THE NATURAL
World



A Message from the Executive Director

In my first year as Executive Director, I find the current spirit of renewal at the Academy mirrored by a cultural renaissance throughout our community. We have seen the debuts of new museums and cultural centers, renovations of existing facilities, and exciting plans unveiled for further dynamic changes. At the heart of this mandate to develop and preserve our cultural and educational resources lies the future of the California Academy of Sciences.

Russ Fischella

Evelyn E. Handler, Ph.D.

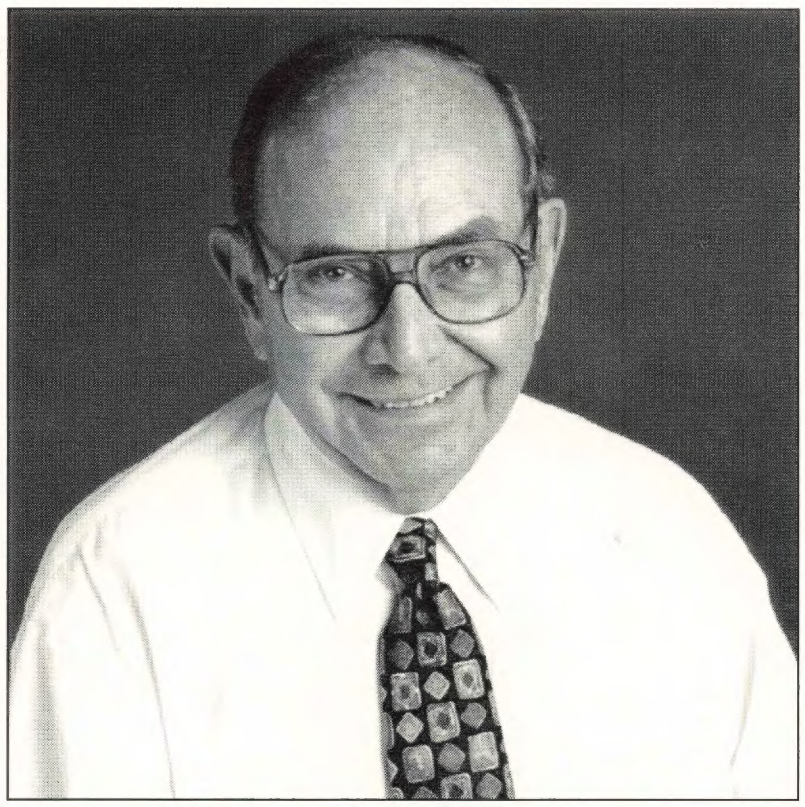
In November 1995, San Franciscans approved by a landslide vote a $29 million bond to rebuild the Academy's beloved Steinhart Aquarium. With the additional generosity of our supporters, we will complement this upgrade by revitalizing our permanent exhibits, expanding our live animal displays, and hosting captivating temporary installations.

The Academy entered a new era in 1995 by uniting our educational programs with the Research Division. This innovative combination of scientific discovery and public education has already strengthened our efforts to develop and deliver the Academy's wealth of science education resources. To serve the next generation of scientists, the Research Division launched the Summer Systematics Institute which pairs undergraduate biology majors with Academy scientists.

The Academy's dedicated staff and volunteers are to be credited with these achievements. To lead these efforts, it has been my pleasure to assemble an outstanding team of division directors from the nation's most qualified professionals. Our directors, with the support of our committed Board of Trustees, will enact a strategic plan to set the Academy's course for the future.

The Academy of the 21st century will be a center where public education is driven by scientific discovery, and where all of the diverse communities of the Bay Area will find resources and expertise of the highest caliber. With great pride in the Academy's many strengths and highest expectations for its exciting future, I thank our community for its continuing involvement and support.

From the Chairman of the Board of Trustees



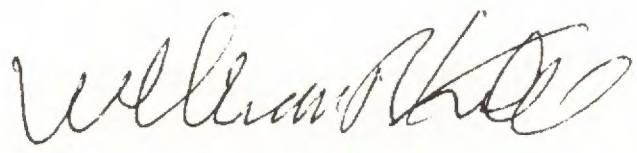
Dong Lin

William Kimball

As Chairman of the Board of Trustees, I have the pleasure of describing the invigorating atmosphere at the Academy over the past year. Since September 1994, Executive Director Dr. Evelyn Handler, an experienced leader and distinguished scientist, has set the pace for an exciting future. She has strengthened her team of experienced senior staff and challenged us all to envision new goals for our education and research. Dr. Handler is leading efforts to bring the best in science education to a diverse audience of Academy visitors, students, and scientists.

That the Academy has a place in the hearts of supporters is clear. Philanthropic support of our programs reached new heights in fiscal year 1994-95. This vote of confidence from our visitors, members, and benefactors, and the dramatic approval of the Bond Measure to Save Steinhart Aquarium by 80% of San Francisco voters, gives voice to the value placed on our vital resources. The Academy's current levels of world-renown research and outstanding public education must be sustained and surpassed. To reach these ambitious goals, we will foster continuing relationships with our supporters, and reach out to bring new communities into the Academy family.

The Academy faces a pivotal time in which to build on its traditions for the next generation and reach new pinnacles of scientific discovery. All of us—Board members, docents, volunteers, and staff—look forward to the important work ahead. On behalf of the Board of Trustees, I thank everyone whose generous support has laid the foundation for our efforts.



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AQUARIUM

Steinhart Aquarium entered a new era in 1995 with the arrival of its new director, Bob Jenkins. Jenkins brings a broad background in aquarium management and animal husbandry to his new role as the fourth leader of Steinhart in its 71 years of operation. Most recently he held the position of executive officer for environmental affairs for the National Aquarium in Baltimore. He succeeds Dr. John McCosker, who has been the director of Steinhart for 21 years. McCosker now will devote his full-time to research as the first person to hold the newly created McCosker Chair of Aquatic Biology.

Dong Lin

Aquarium director Bob Jenkins shows young visitors a bundle of baby boas

One of the most significant and exciting turning points at the Academy of Sciences this year was the landslide passage of the Aquarium bond, Proposition C.
Prop C received more than 80% of the vote, making it the most highly supported City bond in San Francisco in over five years. This important bond will provide $29 million to cover the expenses of seismic upgrade, asbestos removal, lead abatement and other infrastructure repairs needed to keep the Aquarium operational. Major renovations are necessary to repair the extensive waterworks that provide life support to the penguins,

Dong Lin

Amphi and Thetis, long-time Steinhart Aquarium residents, were successfully relocated to a new home at Sea World of Texas in San Antonio, where they now live in a 2 million gallon aquarium with other dolphins.

frogs, lizards, turtles, snakes alligators and more than 800 species of fresh and saltwater fish who live here. Following on the momentum of the tremendous public support for the Aquarium, the Academy of Sciences is preparing to launch a major fundraising campaign that will provide additional funding from private sources to completely update this renowned facility and recreate Steinhart as one of the leading Aquarium's in the United States.

Meanwhile, long-term planned maintenance continued on the Fish Roundabout, Steinhart's magnificent 100,000 gallon circular tank. The first tank of its kind in the nation, the Roundabout had not been drained since it opened in 1977, and the corrosive salt water contained within had taken its toll on the tank's physical structures. The interior of the Roundabout has been painstakingly repaired and is now ready to withstand the effects of saltwater for years to come. California barracuda, bonito, mackerel, ocean whitefish as well as sardines and anchovies, once again will speed through the Roundabout, much as they would in the open ocean. These pelagic, or open ocean, fishes cannot tolerate or comprehend vertical obstructions, and if kept in a traditional squaresided tank, they would collide with the aquarium walls. A 1-knot current flows through the circular 1-foot wide channel, allowing the fishes to swim against the current through a constant water flow. These large fishes swim through the endless channel averaging 50 miles a day.

PLANETARIUM

Space missions and star gazing devices such as the Hubble Space Telescope and Galileo are generating new and revolutionary data faster than we can analyze it. While knowledge about the cosmos and our place within it takes quantum leaps, educating the public about the universe gets more exciting, challenging and important with these new resources.

The sky shows created at Northern California's largest indoor universe attract larger audiences each year with more than 120,000 visitors this year to four new feature shows, covering the spectrum from basic skywatching in *1995 Almanac* to an exploration of cosmic record holders for the biggest, brightest, smallest and coolest celestial bodies in *Extremes.*

The Academy has been bringing schools to the Planetarium for more than 40 years — hosting nearly 45,000 school children in 1995 — but Morrison's universe extends far beyond the building's arching dome. For three years now our staff have been taking astronomy to schools with Project Astro. Academy-affiliated astronomers work with Bay Area middle school teachers and students to boost understanding of and appreciation for astronomy by providing hands-on astronomy activities at the schools. This program is provided at no cost to the schools. Also, the Hume Observatory, at the Academy's Pepperwood Ranch in Sonoma County, was well used by our adult education and Junior Academy programs as well as students at the City College of San Francisco and the College of Marin.

Highlights of the Planetarium's popular Dean lecture series included talks by Dr. Frank Drake, Director of SETI, who spoke about his organization's intergalactic search for extraterrestrial intelligence; Dr. David Morrison, Director of NASA Ames, who investigated effects of comets colliding with the Earth and Jupiter; and Dr. Sallie Baliunas, of the Harvard-Smithsonian Center for Astrophysics, who discussed the origins of life in the solar system.

Morrison celebrated Astronomy Day this year by bringing staff and associates onto the main floor of the museum to meet with visitors, answer questions and give presentations. Throughout the day, staff demonstrated telescopes designed for safely viewing sun spots. With the setting of the sun, we moved the telescopes onto the Academy of Sciences' front steps and observed the western sky. Another important way that the Planetarium serves the community is in answering questions from the public and the press, ranging from the cycles of the moon to meteor showers and other current space-related phenomenon.

NATURAL HISTORY MUSEUM

The life of the Academy, like its mission, reflects a constant commitment to foster scientific discovery and stewardship of the natural world, while interpreting its insights and delights for the public. Loren Behr, new director of Public Programs, sees this challenge as a dynamic effort to continue to look for effective ways of interpreting natural science and helping Academy visitors to appreciate and relate to issues of biodiversity.

The visual, tactile and aural qualities of this museum immersion stimulate the senses and the mind to absorb and integrate the information on display. On any day of the year visitors travel to the far ends of the earth and beyond into space, encountering life from all the oceans, lakes and rivers of the world. Food for thought comes in many forms — from the labels identifying endangered species throughout the museum to the hands-on Discovery Room for kids and the interactive computers in *Life Through Time* and the Biodiversity Center.

Traveling and temporary exhibits add variety and focus to further public awareness and education of natural history topics. *Monarca*, an exhibit created by the Canadian Museum of Nature in collaboration with the Canadian Federation and Monarca A.C., a Mexican conservation group, documented the fascinating life cycle and migration of the Monarch butterfly. This display was the first trilingual exhibit, in French, Spanish and English, to be exhibited at the Academy.

Witness: Endangered Species of North America developed from a long-term and far reaching project of Academy photographers Susan Middleton and David Liittschwager. Photo documentation featured endangered plants and animals from the 50 United States, and an impressive, large-scale book accompanied the exhibit. After its showing at the Academy, *Witness* traveled to other museums and exhibit spaces across the country.

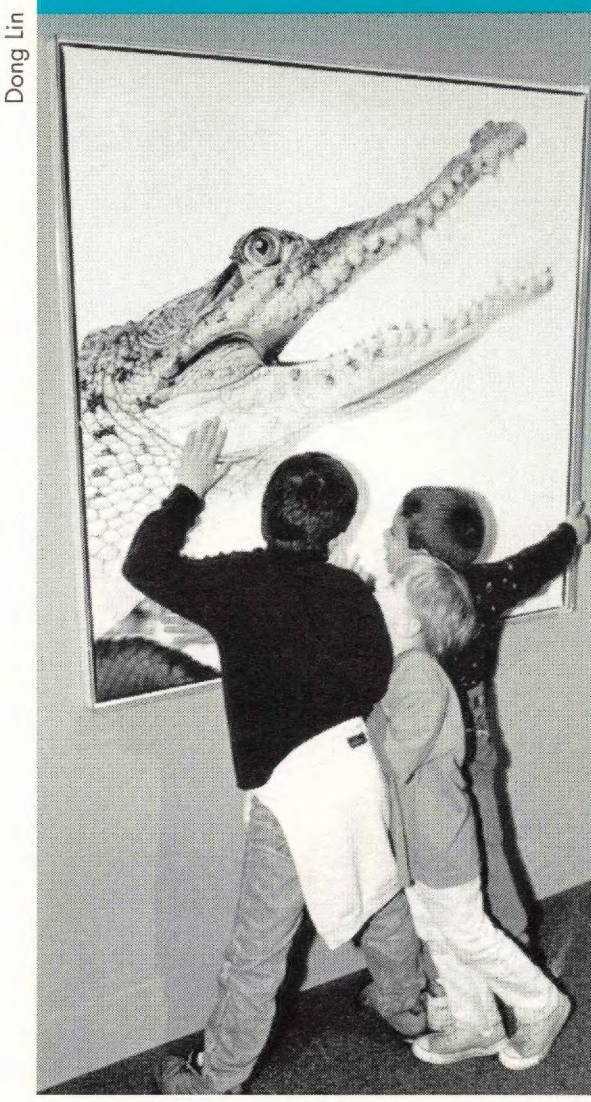
Dancing to the Fossil Record featured drawings by Alaska artist Ray Troll with his whimsical renditions of animals recreated from fossil evidence. Fossils from the Academy's collections and aquaria with live fish added scientific reference to the artist's fanciful interpretations.

Hands-on activities and presentations enhance the impact of the changing and permanent exhibits. In conjunction with *Monarca*, naturalist John Lane gave a talk about conservation issues surrounding the Monarch butterfly. Lectures on the critically endangered tiger, co-sponsored with the Wildlife Conservation Society, found a counterpart in the presentation on endangered peoples, whose lives and lands are threatened.

Year-round, a celebration of life at the Academy embraces the diverse life styles of peoples across the world. Traditional Arts programs featuring live artisans and performers give visitors of all ages the opportunity to explore different cultural traditions each weekend. Each month programs for Young Audiences present an exciting series of performing arts for families.

Since the transformation of Wattis Hall into a place for an ambitious schedule of temporary exhibits, public programs director Loren Behr and Dr. Nina Jablonski, the Academy's new Irvine curator of anthropology, have been planning a new anthropology hall dedicated to rotating exhibitions of specific world cultures. Meanwhile, the anthropology department continues to offer special programs, including this year's Wattis Symposium, *Beyond Art: Upper Paleolithic Image and Symbol.*

Dong Lin



Witness: Endangered Species of North America *featured large-scale photographs of 100 plants and animals threatened with extinction.*

RESEARCH

A dedication to quality and excellence form the basis of scientific inquiry and collection preservation at the California Academy of Sciences. The Academys' vast collections now number nearly 15 million specimens. Twenty staff curators in eight departments traverse the globe, describing and documenting the planet's biodiversity. The Academy's collections constitute an invaluable and irreplaceable resource, providing an inventory to life as we know it. While a million and a half species have been described by science, perhaps another 100 million, many of them in the tropics, remain to be discovered.

Dong Lin

Dr. Patrick Kociolek, *new director of research, oversees the research division of the California Academy of Sciences, including departments of anthropology, aquatic biology, botany, entomology, herpetology, ichthyology, invertebrate zoology & geology and ornithology & mammalogy.*

Each year visiting researchers come to the Academy to study our collections, while others borrow items to compare with their own specimens. This year the Academy hosted 1,014 visiting scientists and research students and loaned 45,527 specimens. Committed to the goal of long-term scholarship, the Academy encourages its scientific staff to publish monographic studies, papers and articles that make special landmark contributions to the field of natural history. In addition, Academy researchers are distributing their findings over the Internet and the World Wide Web.

In pursuit of their specific research goals, Academy scientists create a record of the Earth's natural resources, finding and describing many new species each year in their world-wide studies. Innovative, multi-disciplinary and expeditionary approaches to biodiversity bring new methods to these researchers' efforts. Teams of people with similar geographic interests or theoretical concerns join together in multi-purpose field work. One team of Academy marine biologists recently traveled to the Galapagos Islands. Our collections have a historical connection with field work in the Galapagos, dating back to the 1906 Academy of Sciences expedition. These recent field activities enriched our collections that form a foundation for our scientists continuing efforts to explain the ever unfolding diversity of the natural world.

Right in our own back yard malacologist Dr. Terry Gosliner found a previously unrecognized alien gastropod in San Francisco Bay whose origin he traced to New Zealand. Dr. Gosliner served as a spokesperson to the media on this important discovery of an aggressive alien species and its potential implications to local habitats.

Continued excellence reaps a variety of rewards. In the last three years Academy researchers have received an increasing number of grants, providing greater support from diverse funding sources. Dr. Patrick Kociolek, new permanent director of research, hosted a workshop about the use of fresh water diatoms to infer climate change, funded by the National Oceanic and Atmospheric Administration.

Dr. Robert T. Wallace, creator of the Wallace Internship, which matches a college junior or senior with an Academy scientist for a summer research project, enabled Robyn Draheim, a UCLA biology major to work with the Invertebrate Zoology research team. She analyzed more than 100 years of data on opisthobranchs—sea snails and their relatives without shells. Previous estimates placed the

Academy researchers travel the world monitoring the biodiversity of the planet. Each dot on this map marks a location where Academy research is being conducted.

Dr. John McCosker *prepares to explore the diversity rich waters of the Galapagos Islands*

number of this species at 3,000 worldwide. Draheim's research accounted for 3,400 species in the Indo-Pacific alone.

The Academy's growing international reputation for its collections and its research staff has been increasingly recognized. The University of Cadiz in Spain signed a covenant with the Academy to facilitate collaborative research efforts and to train its students, and individual curators will be teaching graduate level courses at the university.

Closer to home, a program to train undergraduates in systematics, partners them with Academy scientists. Students from seven institutions participated in a 10-week, hands-on Summer Systematics Institute. These undergraduate interns heard lectures, participated in primary research and prepared papers. This initial endeavor now will be expanded to a 3-year Summer Systematics Institute, funded by the research experience for undergraduates program of the National Science Foundation. The Academy views this program as an essential element in the training of future systematists who will be needed to carry on this fundamental work in museums and universities.

As part of its commitment to enrich science education in both traditional and informal settings, the Academy moved the administration of its Department of Education into the Research Division. A new position, curator of education, has been created to direct these efforts. Research director Dr. Patrick Kociolek envisions the new curator taking a leadership role in developing education materials for the 21st century that ensure a wide breadth of scientifically accurate and content-rich programs to engage diverse audiences.

EDUCATION & OUTREACH

Education and learning are part of everything we do at the California Academy of Sciences. Educational activities are tailored to fit diverse audiences, bringing science literacy to 300,000 school age children each year with an emphasis on habitat preservation and a regard for all life forms. Often the approach is "live" as well as lively, providing hands-on interaction with specimens from the collections and live animals from the aquarium such as baby sharks, tide pool dwellers, snakes and lizards.

In the Discovery Room, designed for preschool to 3rd grade children and their families, 54,305 visitors viewed exhibits and enjoyed the objects and activity boxes. Children ages 6-12 attended the summer program, Camp Academy, extended for the first time to a week-long session of classes to stimulate interest in science and nature. Science professionals, such as Ed Miller at the Tidepool and Tad Smith at the penguin encounter, pointed out to Camp participants how all life is interconnected.

Academy staff received assistance from teenage presenters trained as part of the Academy's Science in Action intern program. These young role models added a new and dynamic dimension to classes at the Academy and as part of a new outreach effort using the Supervan for trips to over 30 different community sites in the Bay Area. At these sites staff and interns presented science programs to 780 youths of diverse cultural, ethnic and economic backgrounds.

The Junior Academy offers hands-on science classes to Bay Area youths ages 6-16. 530 students explored topics ranging from science and technology to art and anthropology. In an effort to build stronger ties with the community, the Junior Academy adopted some new formats for off-site classes held at San Francisco Public Libraries, and, an 8 week marine science class taught at the Whitney Young Child Development Center. Staff plans to offer additional courses in informational technology (Internet, WWW) to feature more Academy scientists as teachers in the program, and to search out partnerships to bring our programs into Bay Area neighborhoods.

Adult and Family Education Programs offered 168 classes and 141 tours to 4,824 participants who wished to increase their knowledge of subjects concerned with biodiversity in different parts of the world. San Francisco State University now provides academic credit for several of these courses. Stepping out into the community, the Adult Education program is showcasing Academy scientists as presenters in a new series of natural history classes after work hours in San Francisco's financial district.

The Academy's program of Conversations & Readings at the Herbst Theatre, co-presented by City Arts & Lectures, continues to provide a forum for dialogue and exploration of timely and important scientific and environmental issues. Individual speakers offer their varied perspectives, visions and passions about the world we all share. Maxine Hong Kingston

Dong Lin

Charlotte Fiorito

Left:
Junior Academy students study pond life at the Academy's Pepperwood Ranch in Sonoma.

Right:
Steinhart Aquarium marine biologist Ed Miller brings 3-week old bamboo sharks to share with Camp Academy participants.

gave a lecture/reading "On Wallace Stegner, His Life and Work" for our Second Annual Wallace Stegner Memorial Program. In another program, Dr. George Schaller, author of *The Last Panda* and *Serengeti Lion*, and one of the world's preeminent wildlife and conservation scientists, discussed his views with Orville Schell.

The Academy continues to serve as a focal point for innovation, rejuvenation and support in science education. Thirteen special events at the Academy for teachers such as the California Aquatic Science Educators Annual Meeting, attracted 346 participants. Another 853 teachers fine-tuned their knowledge of biodiversity and science teaching techniques for grades K through 12 in a series of workshops and symposia throughout the year.

Everywhere you go in the Academy volunteers are working behind the scenes in the research departments and the public floor. Visitors interact with volunteers in impromptu highlight tours, Discovery Room activities, and at special events. 1,247 volunteers provided a total of 52,412 hours towards all aspects of Academy operations.

Academy docents led school tours for 3rd graders up to college age Bay Area students. Docents led 491 tours for 15,062 people at the Academy. 79 Supervan visits brought docents directly into schools and increased the total in-school audience for the year to 19,486 students.

Audiences of all ages benefit from Science a la Cart presentations. A rolling cart holding specimens and other teaching materials serves as a stationary center in the museum's halls, for spontaneous public presentations.

Highlight tour leaders served 9,327 people with a one-hour overview of the major museum exhibit areas. The council advertised in community newspapers, some of them bilingual, to attract volunteers with foreign language skills. As a result of this successful recruitment, the Academy now offers 17 different bilingual tours.

Donors

Many generous donors support the Academy's research, education and public programs. In the period from July 1, 1994 through June 30, 1995, the Academy received contributions totalling $5,220,857. This included $2,482,125 in unrestricted support; $842,823 in restricted gifts; $908,248 in endowment funds; $410,000 in capital funds; and $577,661 in in-kind donations. Listed below are those who donated cash, goods or services of $100 or more. Our thanks to all those who supported the Academy this year!

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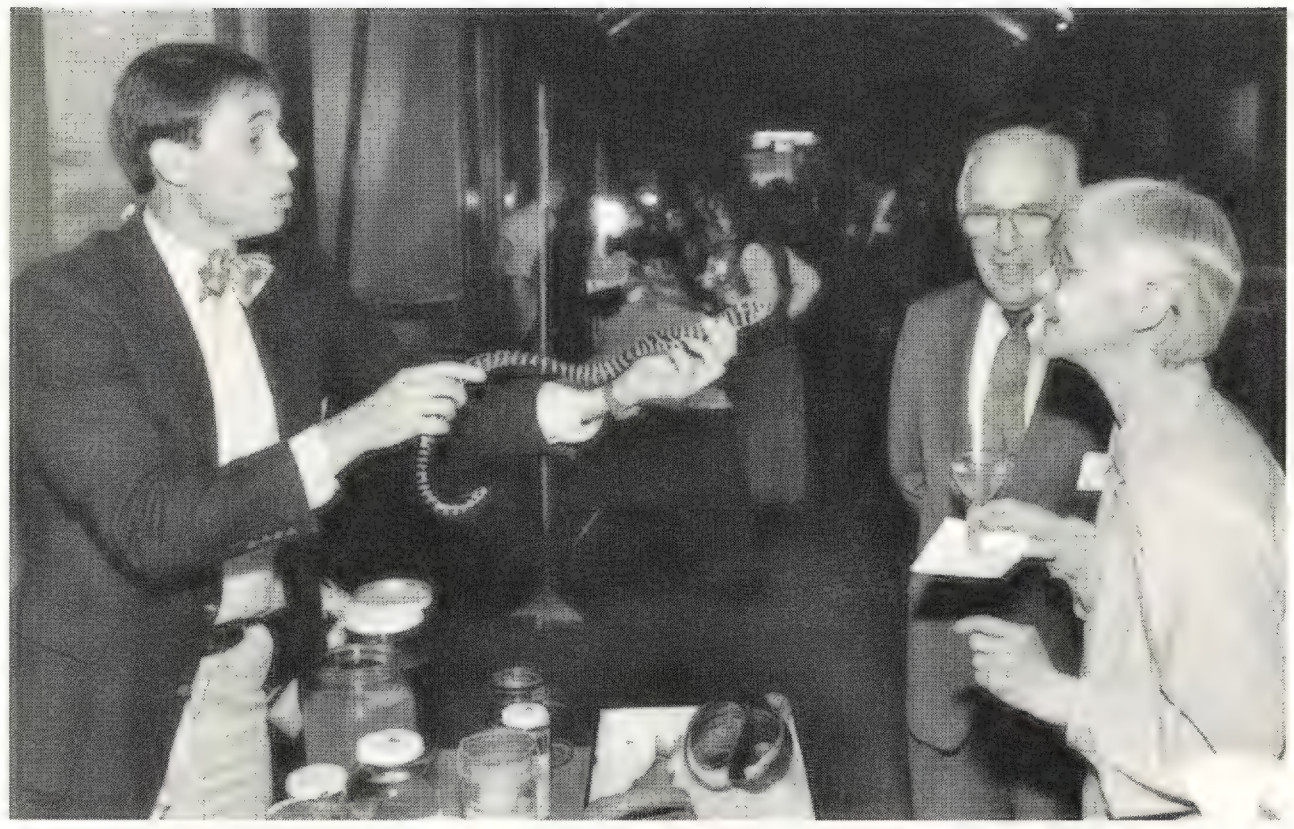

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Mr. and Mrs. Rubin Glickman, Mr. and Mrs. Peter Michael, Kathryn Murphy Glickman, Hannah Michael, and Calli Martin *share the fun at the Academy's popular annual Halloween Party.*

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Academy Trustee Russell Woo *and wife* Sharon, *co-chairs of the* "Lu Huan: Stone Carvings by a Chinese Master" *exhibit opening committee, greet the artist* Wang Lu Huan, *wife* Lu Ann, *and daughter* Lu Lu.

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Fellows

The Fellows of the California Academy of Sciences are the governing body of eminent scientists and trustees whose predecessors founded the institution 142 years ago. These individuals represent the full range of disciplines within the natural sciences and are appointed in recognition of their contributions to the growth of scientific knowledge, particularly in the Pacific region. Nominated by their colleagues and appointed by the Board of Trustees, the Fellows remain members of the Fellowship for life.

Fellows' Medalist

Each year, one prominent Fellow is selected for special honors. At the annual Fellows' meeting in October, 1994, the institution's highest honor, the Fellows' Medal, was presented to Dr. Edward S. Ross, Curator Emeritus of the Department of Entomology at the California Academy of Sciences, in recognition of his scientific contributions to the field of entomology, his many advances in the art of nature photography, and for his dedication to rainforest preservation.

Fellows' Distinguished Service Award

This year, the Fellows' Distinguished Service Award was presented to an exceptionally dedicated volunteer, Raymond Bandar. A retired high school biology teacher, Mr. Bandar has been associated with the Academy for more than 38 years. He is an accomplished and tireless fieldworker having added substantially to the Academy's collections. Mr. Bandar is extremely knowledgeable of the local marine mammal populations and a skilled and prolific photographer.

Special Recognition Award

Commemorating the 25th anniversary of the Academy's Docent Council, President William Clemens presented the Council with a special award of recognition. The inscription on the plaque reads, "The Fellows of the California Academy of Sciences wish to acknowledge the Docent Council's 25 years of outstanding and dedicated service to the Academy. The Docents many contributions to this institution, its visitors, and its scientific and educational missions, is greatly appreciated."

Charlotte Fiorito

Academy President Dr. William A. Clemens *(right) presents the Fellows' Medal to* Dr. Edward S. Ross *(left).*

Adair, John J.	*Anthropology*
Addicott, Warren	*Invertebrate Zoolog*
Alberts, Bruce M. *	*Molecular Biology*
Almeda, Frank	*Botany*
Alvarez, Walter	*Geology*
Anderson, Steven C.	*Herpetology*
Andrews, Fred	*Entomology*
Arnaud, Jr., Paul H.	*Entomology*
Arnold, E. N. *	*Herpetology*
Arnold, John R.	*Birds & Mammals*
Arp, Alissa Jan	*Marine Biology*
Axelrod, Daniel I.	*Paleobotany*
Ayala, Francisco J.	*Genetics*
Bacigalupi, Rimo	*Botany*
Baker, Herbert G.	*Plant Ecology*
Ball, George Eugene	*Entomology*
Baptista, Luis F.	*Ornithology*
Barber, Richard T.	*Marine Biology*
Barlow, George W.	*Ichthyology*
Barneby, Rupert	*Botany*
Barnosky, Anthony D.	*Paleontology*
Bartholomew, Bruce	*Botany*
Bartholomew, George A.	*Ecological Physiology*
Bauer, Aaron M. *	*Herpetology*
Benjamin, Richard K.	*Mycology*
Bennetta, William J.	*Science & Public Policy*
Benson, Seth B.	*Mammalogy*
Bergman, Robert G. *	Chemistry
Berlin, Brent	*Anthropology*
Bern, Howard A.	*Zoology*
Berry, William B.N.	*Paleontology*
Binford, Laurence C.	*Ornithology*
Bischoff, James L.	Marine Geology
Black, Craig C.	*Paleontology*
Blackwelder, Richard E.	*Entomology*
Blake, James A.	*Invertebrate Zoology*
Blum, H. F.	*Physiology*
Bohart, R. M. *	*Entomology*
Bolt, Bruce	*Geology*
Boudart, Michael *	*Chemistry*
Bowen, Sarane T.	*Genetics*
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Bradbury, N.E.	*Physics*
Bradner, Hugh *	*Physics*
Brauman, John I. *	*Chemistry*
Breedlove, Dennis	*Botany*
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Briggs, Winslow R.	*Botany*
Brown, Jr., Robert D.	*Geology*
Brown, Walter C.	*Herpetology*
Buddemeier, Robert W.	*Environmental Studies*
Bullock, Stephen H. *	*Plant Ecology*
Cailliet, Gregor	*Ichthyology*
Cantor, Charles R.	*Molecular Biology*
Carlquist, Sherwin *	*Botany*
Channing, Alan *	*Herpetoloty*
Chemsak, John A.	*Entomology*
Christensen, Mark	*Geology*
Christiansen, Robert L.	*Geology*
Clark, J. Desmond	*Anthropology*
Clark, Joan R. *	*Mineralogy*
Clemens, William A.	*Paleontology*
Cluff, Lloyd	*Geology*
Cogswell, Howard L. *	*Vertebrate Ecology*
Cohen, Daniel M. *	*Ichthyology*
Collman, James P. *	*Chemistry*
Colwell, Robert K.	*Zoology*
Conomos, T. John	*Marine Geology*
Constance, Lincoln	*Botany*
Cook, Clarence Sharp *	*Radiation Physics*
Cordell, Linda *	*Anthropology*
Cory, Lawrence	*Zoology*
Cowan, Ian McTaggart	*Mammalogy*
Cruikshank, Dale	*Planetary Astronomy*
Cudaback, David D.	*Astronomy*
Curtis, Garniss H.	*Geology*
Daly, Howell	*Entomology*
Daniel, Thomas F.	*Botany*
Dasmann, Raymond F.	*Conservation*
Davis, H. Vannoy	*Business*
De Paolo, Donald J.	*Geoscience*
Deetz, James J. E.	*Archaeology*
Dempster, Lauramay Tinsley	*Botany*
Desjardin, Dennis E.	Mycology
Diamond, Marian C.	*Anatomy*
Doutt, Richard L. *	*Entomology*
Dowell, Robert	*Entomology*
Doyen, John T.	*Entomology*
Doyle, James A.	*Botany*
Doyle, William *	*Botany*
Drewes, Robert	*Herpetology*
Dugdale, Richard	*Oceanography*
Duncan, Thomas O.	*Botany*
Durham, J. Wyatt	*Paleontology*
Eakin, David M.	*Physics*
Eakin, Richard M.	*Cell Biology*
Earle, Sylvia A.	*Botany*
Edwards, J. Gordon	*Zoology*
Ehrlich, Ann Howland *	*Conservation Biology*
Ehrlich, Paul	*Conservation Biology*
Eisenhardt, Roy	*Conservation*
Elias, Peter	*Medicine*
Elias, Thomas S.	*Botany*
Emerson, William K. *	*Invertebrate Zoology*
Erman, Don C.	*Fisheries Ecology*
Erwin, Terry L.	*Entomology*
Eschmeyer, William	*Ichthyology*
Evitt, William R. *	*Paleontology*
Ewing, Gifford C.	*Oceanography*
Fautin, Daphne Gail	*Invertebrate Zoology*
Feldman, Lewis J.	*Botany*
Fiedler, Peggy L.	*Botany*
Filice, Francis P.	*Zoology*
Fletcher, Jr., Donald W. *	*Microbiology*
Foster, Michael S.	*Marine Biology*
Frank, Laurence G.	*Mammalogy*
Galehouse, Jon S.	*Geology*
Gauthier, Jacques A.	*Herpetology*
Ghiselin, Michael T.	*Invertebrate Zoology*
Glickman, Stephen	*Psychology*
Golden, David M. *	*Chemistry*
Goldman, Charles	*Zoology*
Gordon, Jr., Mackenzie	*Paleontology*
Gorman, George *	*Evolutionary Biology*
Gosliner, Terrence	*Malacology*
Greene, H. Gary	*Marine Geology*
Greene, Harry W.	*Herpetology*
Gregory, Joseph T. *	*Paleontology*
Griswold, Charles E.	*Entomology*
Grobstein, Clifford *	*Zoology*
Hafernik, Jr., John E.	*Entomology*
Hall, Joseph G. *	*Mammalogy*
Halpern, David *	*Physical Oceanography*
Halstead, Bruce W.	*Medicine*
Hamilton, Edwin L.	*Marine Geology*
Hamilton, III, William J.	*Zoology*
Hand, Cadet *	*Invertebrate Zoology*
Hanna, Margaret	*Paleontology*
Harrison, Ed N.	*Business*
Harte, John	*Environmental Studies*
Hay, Richard L.	*Geology*
Hedgpeth, J. W.	*Invertebrate Zoology*
Heiles, Carl E.	Astronomy
Helmholz, August Carl	*Physics*
Hensill, John S.	*Invertebrate Zoology*
Hermans, Colin O.	*Invertebrate Zoology*
Hickman, Carole S.	*Paleontology*
Hiesey, William M. *	*Botany*
Hochberg, F.G.	*Invertebrate Zoology*
Holdren, John P.	*Energy and Natural Resources*
Hopkins, David *	*Geology*
Hoskins, William M.	*Entomology*
Howard, Hildegarde	*Paleontology*
Howell, F. Clark	*Anthropology*
Howell, Kim M. *	*Herpetology*
Hrdy, Sarah B.	*Anthropology*
Hunt, Marjorie	*Microbiology*
Ingle, James C.	*Paleontology*
Iwamoto, Tomio	*Ichthyology*

Charlotte Fiorito

Mr. Raymond Bandar *was presented the Fellows' Distinguished Service Award for his many years of dedicated service to the Academy and the Department of Ornithology and Mammalogy.*

Jameson, David L.	*Zoology*
Jensen, William A.	*Botany*
Johanson, Donald Carl	*Anthropology*
Johnson, Ned K.	*Zoology*
Jones, David L.	*Geology*
Josselyn, Michael Neil	*Ecology-Phycology*
Jukes, Thomas H.	*Biochemistry*
Kaplan, Donald R.	*Botany*
Kask, John L. *	*Ichthyology*
Kavanaugh, David	*Entomology*
Keck, David D.	*Botany*
Kelley, James C.	*Oceanography*
Kennedy, Donald	*Biological Sciences*
Kimbel, William H.	*Anthropology*
Kistner, David H.	*Entomology*
Klein, Richard G.	Paleoanthropology
Kociolek, J. Patrick	*Diatom Studies*
Koehl, Mimi A.R.	*Invertebrate Zoology*
Laetsch, Watson M.	*Botany*
Lagios, Michael D.	*Ichthyology*
Lane, Robert S.	*Entomology*
Lange, Lester H.	*Mathematics*
Langenheim, Jean H.	*Botany*
Laporte, Leo F.	*Geology*
Larson, Ralph J.	*Ichthyology*
Lattin, John D.	*Entomology*
Le Boeuf, Burney J.	*Biology*
Leakey, Richard E. *	*Anthropology*
Lee, Welton	*Invertebrate Zoology*
Leopold, Luna B.	*Geology*
Lester, William A.	*Physical Chemistry*
Leviton, Alan E.	*Herpetology*
Lewis, Harlan	*Botany*
Lewis, Lowell N.	*Botany*
Licht, Paul	*Herpetology*
Lidicker, William	*Mammalogy*
Lindberg, David R.	*Malacology*
Lindsay, George E.	*Botany*
Linsley, E. G.	*Entomology*
Lipps, Jere H.	*Paleontology*
Loher, Werner J.	*Entomology*
Lowenstein, Jerold	*Medicine*
Lyons, James M.	*Botany*
Mackey, James P. *	*Herpetology*
MacNeil, F. Stearns	*Paleontology*
MacNeill, C. Don	*Entomology*
Madin, Stewart H.	*Public Health*
Mandra, York T.	*Paleontology*
Markowitz, Hal	*Behavior Biology*
Marler, Peter	*Ethology*
Mason, H.L.	*Paleobotany*
McClintock, Elizabeth	*Botany*
McCosker, John E.	*Ichthyology*
McCrone, Alistair W.	*Geology*
McHenry, Dean *	*Administration*
McHenry, Henry M.	*Biological Anthropology*
McIntyre, Donald B.	*Geology*
McMillan, Eben	*Ornithology*
Mead, Giles	*Ichthyology*
Menon, Gopinathan	*Biochemistry*
Middlekauff, Woodrow W.	*Entomology*
Miller, Malcolm	*Zoology*
Miller, Milton A.	*Invertebrate Zoology*
Mishler, Brent D.	*Botany*
Monteverdi, John P.	*Meteorology*
Mooi, Richard	*Invertebrate Zoology*
Mooney, Harold	*Environmental Science*
Moran, Reid	*Botany*
Moratto, Michael J.	*Anthropology*
Morrison, David	*Planetary Astronomy*
Mosher, Harry S. *	*Chemistry*
Moyle, Peter B.	*Ichthyology*
Mullen, David A.	*Zoology*
Muller, Cornelius H.	*Botany*
Murphy, Michael A.	*Paleontology & Geology*
Nichols, Frederic H.	*Invertebrate Zoology*
Niesen, Thomas M.	*Invertebrate Biology*
Norris, Kenneth	*Mammalogy*
Nur, Amos M.	*Geology*
Nybakken, James	*Invertebrate Zoology*
Ogg, Robert Danforth *	*Engineering*
Ornduff, Robert	*Botany*
Owings, Margaret	*Zoology*
Packard, Richard E.	*Physics*
Padian, Kevin	*Paleontology*
Parenti, Lynne R. *	*Ichthyology*
Parker, Thomas	*Botany*
Parnell, Dennis R.	*Botany*
Patterson, Robert	*Botany*
Patton, James	*Mammalogy*
Pearse, John Stuart	*Invertebrate Zoology*
Pearson, Oliver	*Animal Ecology*
Perlman, David	*Journalism*
Pestrong, Raymond	*Geology*
Peterson, Donald W.	*Geology*
Petrinovich, Lewis	*Ornithology*
Pietsch, Theodore W.	*Ichthyology*
Pister, Karl S.	*Civil Engineering, Education*
Pitelka, Frank A.	*Ecology*
Poinar, Jr., George O.	*Entomology*
Powell, Jerry A.	*Entomology*
Power, Dennis M.	*Ornithology*
Pulawski, Wojciech J.	*Entomology*
Randall, Janet	*Mammalogy*
Raven, Peter	*Botany*
Resh, Vincent H.	*Aquatic Biology*
Reynolds, Don	*Botany*
Reynolds, John H. *	*Physics & Geophysics*
Reynolds, Wynetka Ann	*Biochemistry*
Rick, Charles M.	*Botany*
Ripley, S. Dillon *	*Zoology*
Robison, Bruce	*Deep-sea Biology*
Rodda, Peter U.	*Geology*
Rodman, Peter *	*Anthropology*
Ross, Edward S.	*Entomology*
Ruibal, Rodolfo	*Herpetology*
Sarich, Vincent M.	*Anthropology*
Savage, Donald E. *	*Paleontology*
Schlinger, Evert I.	*Entomology*
Schonewald, Jacqueline *	*Mammalogy*
Scott, Eugenie	*Anthropology*
Scudder, Harvey I. *	*Entomology*
Seaborg, Glen	*Physics*
Seibel, Erwin	*Oceanography*
Shack, William	*Anthropology*
Shapiro, Arthur	*Zoology*
Shellhammer, Howard S.	*Mammalogy*
Sibley, Charles G.	*Ornithology*
Silberling, Norman J. *	*Geology*
Silva, Paul C.	*Botany*
Smith, Alan R.	*Botany*
Smith, Arthur	*Entomology*
Smith, Edmund	*Invertebrate Zoology*
Smith, Edward Laidlaw *	*Entomology*
Smith, Ray F.	*Entomology*
Smith, Thomas Bates	*Ecology*
Soule, John D.	*Invertebrate Zoology*
Sousa, Wayne P.	*Marine Ecology*
Stebbins, Jr., G. Ledyard	*Botany*
Stebbins, Robert C.	*Herpetology*
Sternberg, Hilgard O'Reilly	*Geography*
Stevens, Calvin H.	*Geology*
Stewart, H. P.	*Business*
Stine, Scott W.	*Physical Geography*
Stoddart, David	*Geography*
Stohler, Rudolph *	*Invertebrate Zoology*
Stott, Jr., Kenhelm	*Zoology*
Strother, John L.	*Botany*
Sullivan, Raymond	*Geology*
Swan, Lawrence W.	*Zoology*
Sweeney, James R.	*Botany*
Talbot, Frank H.	*Ichthyology*
Taylor, Dwight W.	*Invertebrate Zoology*
Taylor, John W.	*Mycology*
Taylor, Leighton	*Ichthyology*
Tenaza, Richard R.	*Mammalogy*
Thiers, Harry	*Botany*
Thomas, John H.	*Botany*
Thorne, Robert F.	*Botany*
Thorp, Robbin W.	*Entomology*
Tinoco, Ignacio	*Chemistry*
Toft, Catherine A.	*Ecology*
Tomlinson, Jack	*Invertebrate Zoology*
Toon, O. Brian	*Atmospheric Science*
Towle, Albert	*Invertebrate Zoology*
Townes, Charles H.	*Physics*
Tu, Maoli *	*Herpetology*
Tucker, John M.	*Botany*
Valentine, James W.	*Paleontology*
van Andel, Tjeerd H. *	*Geology*
Vaux, Henry J. *	*Forestry*
Vermeij, Geerat	*Evolutionary Biology*
Villa-Ramirez, Bernardo	*Mammalogy*
Vitousek, Peter M.	*Ecology*
Wake, David B.	*Herpetology*
Wake, Marvalee	*Zoology*
Wallace, Robert E. *	*Geology*
Walter, Robert C.	*Geology*
Ward, Peter Douglas	*Geology*
Wasbauer, Marius S.	*Entomology*
Washburn, Dorothy	*Anthropology*
Washburn, Sherwood L.	*Anthropology*
Watt, Kenneth E.	*Zoology*
Watt, Ward B.	*Evolutionary Biology*
Weaver, Harold F. *	*Astronomy*
Webster, Grady L.	*Botany*
Webster, J. Dan	*Zoology*
Welles, S. P. *	*Paleontology*
Wetzel, Cherie *	*Botany*
White, Timothy D.	*Anthropology*
Williams, Gary C.	*Invertebrate Zoology*
Williams, Stanley C.	*Entomology*
Wolfe, Jack A.	*Geology*
Zalom, Frank G.	*Entomology*
Zare, Richard N. *	*Chemistry*
Zhao, Ermi *	*Herpetology*
Zihlman, Adrienne	*Anthropology*
Zimmerman, Elwood C. *	*Entomology*

Patricia Dal Porto,
Secretary/Coordinator to the Fellows

* = Honorary Fellow

Volunteers

The volunteers listed below contributed nearly 53,000 hours in service to the Academy during 1995. Each department benefited from the skills, generosity and commitment of these individuals. The Academy acknowledges with gratitude their very significant contribution.

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Jean Adams, Do
Myrtle Adams, ID
William Ahern, Do HL
William Ahlenius, IG
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Nan Arata, An
Carmelita Arburua, Do
Greg Arcenio, BC
Connie Armitage, SE Do
Ian Armstrong, TP
Madeline Arnaud, En
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Roberta Borgonovo, Do
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Victoria Bradshaw, An
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Kini Chang, EM
Ronald Chang, Ic
Danton Char, An
Graham Charles, Do HL
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Vincent Che, Ed
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Kenneth Chin, CD
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Robert Christensen, Do
Dennis Christian, Op
Anna Christie, TP
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Kathleen Clahan, Do
Ruth Coffey, Do
Leah Cohen, Do
Anne Cohler, Do
Gregory Cole, Aq
Dick Coleman, Do
Ben Colloff, Bo
Douglas Condrotte, Aq
Elizabeth Conley, HL Do
Marilyn Conrad, Bo
Tweed Conrad, ST Ex
Allen Constable, ST
Tim Conway, Aq
Joan Cooper, Do HL
Nancy Coopersmith, Do HL
Kathleen Copus, Do HL
Fauno L. Cordes, LS
Patricia Cornell, Do HL
Corinne Cornish, LS
Lysbeth Corsi, PD
Gina Corteza, Do HL
Ann Costigan, Do
Margie Cotner, Li
Ellen Cowley, Do
Suzanna Coxhead, Do HL
Ella Coyne, As
William Crawford, Do HL
James Cribb, Do HL
Jeremy Crockett, Ex
Christopherson Crossen, PD
Moisa Cueto, TP
Lydia Cuiting, BC
Irene Culver, Do HL
Juli Cunningham, An
Daniel Curoe, En
Jonathan Cusick, TP
Christa Dahlstrom, Ex
Patricia Dal Porto, Do
Ronald Dammann, Pl
Elaine Daniels, Do
Carlin Dare, Ex
Corey Dare, ST
Hannah Davie, SE ID
Alena Davis, Op TP
James Davis, Aq
Julian Davis, Do HL
Tom Day, Do
Brian Dea, Aq
Liam Deely, TP
James DeGregorio, SE
Robert Del Chiaro, TP
Mary DeLancey, ID En
Marlene DeLong, Do HL
Peter DeLucchi, TP
Terri DeMartini, PI
Ruth Denmark, Do
Micah Der, Aq
Gary Deutsch, Ex SE
Bep DeVries, AE
Livia DeWath, DR SE
Robert Dewey, Jr., ID
Cristina di Grazia, Ex
Charles Dickinson, BC
Mary Margaret Dickinson, Do
Brook Dillon, Ph
Edward Dishart, Mm PI
Marie Djordjevich, HL Do
Inge Dobel, Bo
Sandi Dobrowolsky, Ex
Theresa Dooley, HL BC Do
Sean Dougherty, Aq
Gordon Douglas, Do
Kristina Douglas, TP
Jerry Dow, HL Do
Mervyn Dowd,Jr., Do HL
Robert Doxey, Op
Lisa Dragics, Do HL
Robyn Draheim, TP
Charles Drechsler, Aq
Dolores Drew, SE Bo An
Tim Drew, Os
Lynn Drover, Do HL
Peggy Dugdale, Do
Colleen Duggan, Do HL
Lynn Dunne, Do
Erin DuPree, DR SE
Beatrice Duran, SE
Caitlin Dyckman, IG
Vivian Easter, Do HL
John Eckhart, HL Do
Gilbert Edelstein, SE CL DR
Albert Edgerton, Aq Do
Barbara Andrews Edwards, Do HL
Lee Edwards, Do
Susan Edwards, Li
Fred Ehrman, Do HL En
Jonathan Eldridge, Os
Ben Elkus, LS
Doniel Ellis, OM
Scott Elrod, SE AE
Bill Emmack, BC
Helene Enderlin, LS
Robert Entwistle, Do HL
Aftab Enty, Aq
Richard Epstein, Bo
Maria Esclamado, SE SE
Ellen Eshelby, CH HL Do
Helene Ettelson, ID
Charles Evans, EM
Marilyn Evans, DR
Ted Evans, HL Do
Anne Fannjiang, Aq
Eric Fauchet, Aq
Carol Fay, Cl Ad
Bella Fayngor, SE DR
Carolyn Federman, TP
Lawrence Feldman, ID
Seymour Feldman, Do HL
Vincent Feliz, TP Aq Ch DR
Chris Fenton, Aq
Patti Ferrera, HL Do
James Fidian, IG
Kathryn Filley, CD
Arville Finacom, Do HL
Debra Finucane, BC
Barbara Firger, Do HL BC
Michael Fisher, BC
Tara Fitz-Gerald, SE Aq
Michael Flanders, ID
Melanie Fletcher, DR
Joan Florence, Do
Kevin Foley, Bo
TImothy Folsom, OM
Elizabeth Fong, TP
Roger Foo, SE DR
Susie Fork, OM
Marilyn Forni, HL Do
Penelope Foster, En Ex
Aline Fountain, HL Do
Charles Fox, BC
Susan Fox, Do
Jules Fraden, HL Do
Perry Francia, CH
Chris Francis, DR An
Kate Frankel, DR Do
Frank Fredericks, Aq
Neti Fredericks, Bo EP
Gail Freihofer, En
Brian French, Ex
Robert Fritz, Aq
Alberta Fross, SE ID
Nancy Fuller, SE Do
Whitney Fuller, Ed
Tara Funck, En
Lawrence Fung, TP
Marni Fylling, Ex
Gillian Gaghan, Aq
Jane Galvan, DR ST Do
Adilia Galvez, SE Ed Ad
Alvaro Galvis, DR CH TP
Dolores Gamez, Bo
Evelyn Gara, Aq Cl Do
Paul Gardinier, Ex
Jocelyn Garovoy, IG
Debra Garza, Aq
Shirley Gasich, BC
Sally Gati, An
Diana Gay-Catania, IG Ic
Dolores Gebhardt, Do
Roxane Geller, TP Do HL
Christopher Gentry, Do HL
Michelle Gethner, SE Ed
Marina Gierson, He
William Giesin, Bo
Melissa Gill, Ex
Ann Gilmore, Aq
Vanessa Giron, DR
Herschel Gist, CD
JohnPaul Givens, EM
Adilia Glavez, SE
Samantha Glorioso, Do
Antonio Godoy, PI
Gabrielle Goffinet, ST Aq
Carol Goldsmith, TP Li
Jose Luis Gomez, Aq
Marj Goodner, Do
Kent Gordon, HL DO ID
Francoise Gorfain, BC
Phyllis Graff, Do
Kenneth Graham, HL Do
Pat Graham, Do
Sean Graham, TP
Linda Grant, SE DR
Brian Gray, He
David Gray, Ex
Diana Gray, DR SE
Evelyn Gray, Bo
Julie Greenberg, PP

Charlotte Fiorito

Marian Boede *(left) received an award for her 25 years of docent service with* Eleanor Visser, *Chair of the Docent Council (center) and* Diane Butler, *Chair of Volunteer Services (right), accepting a special award from the Fellows to the Docent Council, honoring its 25th anniversary.*

Karen Greig, Li
John Greiner, Aq
John Griffin, TP
Kyle Griffiths, Aq
Daniel Grimm, Bo
Karen Grimmer, Aq
Jose Guardado, TP CH DR
Amalia Guerrero, SE Cl
Francesca Guerro, Ed
Dexter Guess, Aq
Ana Marie Guichard, TP
Anna Guillory, DR
Kristin Gunning, LI
Shirley Guy, PD
Lilian Guzman, SE
Sylvia Haas, SE
Marie Hagelstein, SE
Betty Hall, Do
Susan Hall, TP DR
Bob Halsey, Do
Douglas Hamilton, AE Do HL
Ben Hammett, BC LS
Rebecca Hammett, TP
Daniel Hammonds, TP
Oliver Hampton, TP
Emanuel Han, TP
Cindy Handen, OM
Rebecca Hanna, Os
Jacklyn Harang, SE AE
Honey Harm, SE PI
Pauline Haro, TP
Ayana Harris, DR
Melissa Harris, Ph
Trevor Harrison, BC
Ed Hartsook, Do SE
Jean Harvey, Do
Barbara Hauge, Do
Peter Haugen, Aq
David Hayashida, Ph
Donald Heckman, Li
Helen Heller, Do
Lilo Hendrix, Do
Yaye Herman, DR Do SE
Evelyn Hernandez, DR ID
Todd Hernandez, TP
Jocelynn Herrick, Do HL
Mia Hershiser, SE Do HL
Chris Hess, Aq
Phyllis Heywood, Do
Del Loris Higgins, Do
Nathaniel Higgs, TP
Stacy Hild, An
Zach Hilton, PI
Ernest Hirose,Jr., Aq
Tinyee Hoang, Aq
Robert Hoellwarth, HL Do
Mary Louise Hogikyan, Do HL
Anna Holmes, TP
Ingrid Holtzman, SE Do
Paul Holtzman, SE Do
Florence Holub, Ex Do
Margery Hom-Brown, Do HL
Van Hong, TP
Jim Honniball, Aq
Sylvia Hope, OM
Parris Hopkins, EM
Stephen Hord, Do
Stephen Horn, Pl
Catherine Horner, Do
Robert Horst, OM
Catherine Hounshell, Ex
Russell Howson, TP
Teming Hsueh, Op
Yi Hsueh, DR
Alice Huang, Ad
Linda Huang, Do HL
Andrew Huey, En
Elena Huey, Ed Dv
Reina Hugh, TP
Lawrence Hull, Aq
Judy Hummell, An
Fiona Humphrey, BC Do HL
Ann Hutchison, Do
John Hyatt, CD
Daniel Ingwersen, Aq

Jesse Isola, TP
Cynthia Jackson, BC
Jacqueline Jacobson, Do
Rebecca Jacofsky, Do HL
Michele Jaeger, Ex
Ian James, Ic
Emily Jan, IG
Erin Janoff, TP
Faith Jansen, Do
Carolyn Jaramillo, HL Do
Zachary Jarvis-Wloszek, TP
David Jayne, TP
Jill Jekot, Aq
Rhonda Jenkins, Ex
Barbara Jennings, BC
John Jennings, Do HL
Lowell Jennings, TP
Tina Jensen, Dv
Beverly Jerome, Do
Pio G. Jimenez, TP
Beverly Johnson, HL Do
David Johnson, Ex Cl
Erika Johnson, An
Jean Johnson, Do HL
Fred Johnson, Jr., Do HL
Darci Jones, Aq
Edward Jones, Do SE
Robert Jones, SE ID
Sonja Jones, TP
Bernice Joseph, Bo
Tyson Jue, En
Seymour Jurow, Do SE
Barbara Kalfain, Mm SE
Steven Kam, SE Cl
Ruth Kamena, DR SE Li
Karena Kamins, Aq
Tamara Kan, Bo
Dan Karnicki, Jr., BC
Ulrich Karrer, Op IS
Christine Kasman, Do HL
Nicholas Kaufman, TP
Mamiko Kawaguchi, OM SE
William Kaye, Do SE TP
Corey Kech, Aq
Carol Keiper, OM
Luisa Kella, EM
Richard Kendall, SE
Rosina Kendall, ID
Kathleen Kennedy, Do
Doris Ketcham, LS
Faride Khalaf, HL Do
Merlyn Khan, Ed
Virginia Kibre, Do HL DR
Helen Kim, TP
Susan Kirks, Pl Dr Ed
Daniel Kissell, SE
Judy Kjellberg, Mm SE Ed
Tiffany Knight, Bo
Joann Franklin Knox, Do
Kim Knox, Ed DR
Patsy Kobe, Bo
Connie Koch, TP Do SE
Yae Koda, An
Barbara Koepsell, Do HL
James Kohnke, Aq
Natalya Kosareva, BC SE
Viera Kovac, BC
Rebecca Kraft, DR
Hugh Krogh-Freeman, BC
Martha Kropf, Do TP
Guy Kubowitz, Do Op HL
Marie Kuck, Do DR
Monica Kwong, TP
Zephania Kwong, TP
Lynn Laczynski, HL Do
Carole Ladure, Aq
Rebecca Lafore, He
David Laity, Do HL
Andy Lam, EM
Danny Lam, Ed
Darren Lam, TP
Diana Lamson, TP
Christine Landrum, Ex
Sharon Landwehr, Do HL
Elizabeth Lane, Bo

Kathy Lane-Pratt, HL Do
Rosalyn Langsam, HL Do
Robert Langston, En
Selene Larrimore, Ex
Beverly Lau, HL Do
Genevieve Lau, TP
Joshua Lau, Do HL
Bobby Law, Do HL
Eleanor Lawry, Do
Richard Lazarus, ID HL AE Do
Tri Le, En
Sarra Lederman, TP
Barbara Lee, Ex
C. Bruce Lee, OM
Calvin Lee, Aq
Davis Lee, Ex
Eevin Lee, Ed
Fred Lee, DR SE
Irene Lee, EM
John Lee, Ex
Kathleen Lee, Ed
Leticia Lee, TP
Michelle Lee, TP
Raymond Lee, TP
Richard Lee, Do HL
Vincent Lee, TP
Joyce Lee-Chang, HL Do
Enid Leff, SE LS OM
David Legge, Do
Sally Legge, Do
Debbie Leibensberger, Aq
Alberto Leiva, Ex
Renata Lellis, TP
Mary Lemos, SE
Jennifer Lester, Bo
Ricky Leung, Ed
Josh Levin, TP
Naomi Levinson, Do
Ladar Levison, Li
Terry Levy, DR
John Lewis, Do HL
Hai Yan Li, Ad
Raymond Lie, DR
Ellen Lieber, Do
Kathleen Lilienthal, Do HL
Robert Lilienthal, Do SE
Harry Lin, Aq
Jasen Lina, EM
Sandy Linder, Do
Aurora Liongson, Bo BC
Stephanie Lipow, BC
Lois Lippincott, Do
Carole Litwin, BC
Miriam Locke, Dp BC
Mae Loh, Ex
Kathleen Long, Li
Diana Loomis, BC
Laura Lorbeer, SE
Rolland Louden, Do
Barry Louie, TP
Kristina Louie, Aq
Mikkel Louie, TP
Jim Lovette, He TP
Candace Low, Aq
Doug Lucchetti, HL Do
Lawrence Lucks, SE Li Do
Frank Ludwig, Pl
Kiamara Ludwig, Bo
Vivian Lui, ID
Judy Lum, JA
Joseph Luna, ST
Jan Lundberg, SE
Ilya Lushtak, Ex
Eric Lutz, Ex
Joel Lym, TP
Matthew Lynch, Ex
Pat Lynch, Do TP
Preston Lytton, PI
Deborah MacLeod, Do
Douglass MacMillan, Op
Anne Macpherson, BC
Tilly Maddux, SE Do TP
Christopher Mah, Aq
Brent Malarkey, Do
Justin Mallen, Aq Cl

Arn Malliett, IG
DeAda Mally, Bo
Evelyn Manies, Do HL
Patrick Marantal, Ed
David Marcon, SE DR
Rebecca Margolis, PD
Jo Markovich, SE
Joseph Marshall, TP SE Do
Andy Martin, Aq
Greg Martin, PD
Jessica Martin, CH TP DR
Kay Martin, Bo
Steve Martin, BC
Celeste Martinez, SE DR
Ted Martinez, IG
Martha Masterson, SE
Vincent Mathias, TP
Terri Matz, ID
Jeanie Mayall, BC
Ryan Mayfield, TP
Steven Mays, Aq
Michael McAdam, Aq
Hilda McAvin, Do
Cindy McBee, BC
Anne McCamman, BC
Blythe McCool, ST
Maria McCord, HL
Judy McCubbin, Do
David McGee, IG
Maureen McGowan, Do
Paul McLaughlin, CD
Raleigh McLemore, OM
Pamela McNay, Do
William Meecham, En
Markus Meier, Aq
Maureen Meikle, SE AE
Teresa Meikle, Li
Jana Meilke, IG
Lara Mendel, Dp
Ramon Meraz, TP
Bill Merkel, Aq
Judy Merrill, HL Do
George Metz, IG
Louise Meyer, SE ID
Richard Meyerhoff, Do
Melissa Michaud, Ed
Robert Miche, Aq
Kim Middlekauff, Ex
Paula Miller, Do Hl
Harold Miller, Jr., ID
R. F. Milne, Do HL
Charles Mink, Do
Michael Mitchell, TP
Chuck Mitsui, Aq
Jed Miyashiro, SE En
Luis Montano, TP
Esther Montoro, Bo
Dolores Monye, Cl PI
Gerald Moore, HL Do
Khrishna Moore, Ex
Mary Moore, HL Do
Peter Moore, PI
Virginia Moore, LS
Stephanie Morch, BC
Austin Morrill, AE DR ID
Sherry Mosley, DR
ZeeZee Mott, Do
Jonathan Muenk, BC
Sean Mullins, TP
William Munich, IG
Carole Murfee, SE ID
Robert Murfee, DR
Carol Murphy, BC
Joseph Murphy, Aq
Katie Murphy, Cl SE
Valerie Myint, JA
Kara Nadspal, HL Do
Carla Nakama, BC
Nora Nakashima, OM
Jeffrey Nash, OM
Jennifer Nash, Aq
Ruth Nash, IG
David Nebenzahl, An
Carol Nelson, Do HL
Dora Nelson, ID

Charles Nemenzo, BC
Annie Ng, Do HL
Joseph Ng, En
Tina Ng, EM
Carland Nicholson, Do
Therese Nikas, Bo
Carmela Nilan, SE DR
Jack Nitzberg, Cl
David Nonomura, Aq
Mary Frances Norman, Do
John Northwood, Do
Elizabeth Norton, Do HL
Sunthron Nuntadusit, PI Ed
Patricia O'Brien, Do HL
Bobbie O'Connell-Brubaker,Do HL
Lindsay O'Hara, Ex
Damon O'Keefe, Ed
Shannon O'Mara, SE Mm PI
Walter Obermeyer, Do HL
Miki Ohara, Ed
Barbara Oleksiw, HL Do
Margaret Orr, Do
Caroline Orrick, Do
Georgina Ortiz, Aq
Collins Orton, AE
Dorothy Oster, SE Do
Christine Oswald, Aq DR Ch TP
Benjamin Owen, Aq
Diane Owens, BC
Kathleen Pabst, Do HL
Paul Pacheco, Aq
Terry Padgett, Do
Jaime Padilla, OM
Marcial Padillo,Jr., ID
Trevor Page, TP
Mary Pagonas, Do HL
Timothy Paine, Do HL
Sunny Pak, Bo
Heidi Palacios, Cl Do SE
Paul Palestine, Op
Roberta Paley, HL Do
Allison Pam, Do HL
Elizabeth Pannell, Aq
Florence Pardini, Do HL
Branden Park, Aq
Jim Parkinson, Do HL
Ann Parrish, PP
Luba Parry, AE ID
Dave Parsons, Aq
Jeffrey Pasco, Pl
Erland Patterson, Aq
Antonio Paulino, Do HL
Beau Pearson, EM
Jennifer Pearson, TP BC
Nancy Pease, Do
Jennifer Peet, HL Do
Mei-Zhu Peng, TP
Michel Perekrestenko, IG
Annette Perry, ST Do
Rebecca Peters, Bo
Todd Petersen, OM
Cris Petersen-Clark, Do HL
Dawn Peterson, IG
Chris Petromilli, Aq
Jay Phillips, BC
Shawn Phillips, BC
Nancy Pickford, Do
Guy Pilara, IS
Sue Pinkerton, HL Do
Emily Pipp, Aq
Jennifer Pipp, Aq
Debra Pires, OM
Alfred a la Pisco, TP
Sanford Plainfield, HL Do
Betty Pollock, DR Do HLSE
Joan Pont, Do HL
Margaret Poole, Do HL
Susan Poole, Do HL
Diana Pop, Do HL
Barbara Pope, IG
Michael W. Pope, Ic
Brad Post, Aq
Jenny Pramuk, Aq
Timothy Pratt, Tp
Ann Preece, LS Do

Dong Lin

Volunteer Gilbert Edelstein *helps visitors explore the Hands-On Science exhibit.*

Dolores Priem, BC
Kirk Prindle, OM
Judy Prokupek, Do
Robin Prothro, Bo
Steven Pullman, IG
Charlene Quan, CS
Jennifer Quan, Ed
Jane Radcliffe, BC IG
Andrea Raggio, DR
Ricardo Ramirez, TP
Mary Raso, HL Do
Megan Rathfon, OM
Elizabeth Reed, BC
Maddox Rees, Do HL TP
Kathy Reichardt, Do
Anita Reichel, AE
Cecil Reichert, LS
Louise Reiter, HL Do
Iwona Rek, IG
Edward Remedios, HL Do
JoAnn Renema, Aq
Hugh Reynolds, Do
Julian Rhine, Do
Jean Ribardo, En
Alexandrine Rich, Bo
Diane Richards, CD
Ralph Richardson, Aq
Robin Ricketts, TP
Elizabeth Rieger, Do
Nancy Riley, HL Do
Gino Rinaldi, CD
Alex Robbins, CH
Janet Robbins, Do
Jay Roberson, PI
Rose Roberto, Do HL
Mary Roberts, Do HL
Shannon Robins, Ex
John Rocco, Aq
Lisa Rock, Ex BC
Helen Rodgers, HL Do
Patricia Rodgers, SE
Loretta Rodriguez, TP
Manuel Rodriguez, CD
C.J. Roessler, DR CH SE
Barbara Rogers, Do
Bridget Rogers, Aq
Ernest Rogers, Do
Joseph Rogers, BC
Rafael Romero, CH TP
Jeanne Rose, AE Do
Anne Rosenthal, PD
Chaana Rosenthal, TP BC
Kimberly Ross, PI
Tinka Ross, IS
Sissy Rossi, Do HL
Lois Roth, Ex Do
Rio Roth-Barreiro, CH TP DR
Elsa Ruckert, Bo
Denise Ruggeri, TP
Cindy Ruiz, Aq
Dorothy Rumney, Do
Jim Runner, AE IS Do
Ellen Rutter, Ex
Lindsay Sakamoto, TP
David Salgado, Ex
Sergei Samborski, BC
Grace Samson, Li
Ivan Samuels, OM
Doris Sanchez, ID
Julia Sanders, SE
Raymond Sante, Aq
Ben Saturen, LS
Faith Saunders, Li
Lynn Savage, An
Marjorie Schmelzer, IG
Herbert Schmidt, Do
LaVerne Schmidt, Do
Morgan Schmidt, Ex
Jacqueline Schonewald, OM
Mary Schreiber, DR
Linda Schulman, Do HL
Dean Schumacher, BC
Wende Schwake, Aq
Daniel Scollon, OM
Norman [Jerry] Scott, TP Do
Ruth Scott, Do
Linda Seabrooks, En
Kari Seaton, Op
Sara Seaton, Ed
Frankie Seffens, Do
Lesley Segedy, Do
Vee Senires, TP
Kevin Shah, LS
Arezou Shakernia, TP
Christopher Shayne, PD
Albert Shell, Do
Fred Shelton, LS
Jacqueline Shen, Ed
Peter Shepard, Ed
Carrie Shepherd, PI
Maggie Shepherd, DR
Walt Shepps, Li
Robert Sheridan, Mm
Dan Sherman, Cl Aq
Naomi Shibata, PW
Mary Shirley, Aq
Jack Shnider, HL SE Do
Edward Shoikhet, Aq
Tricia Sierleja, TP SE
Hannah Silver, BC
Marjorie Silver, Do
Kate Sims, An
Isabel Singer, PD
Mary Sitton, Bo
David Siu, Li BC
Benjamin Smith, Aq
Clyde Smith, Do TP
Gary Smith, Bo
Geoffrey Smith, Aq
Gladys Lucile Smith, LS
Jeffrey Smith, En
Kathleen Smith, DR
Vince Smith, TP
Katrina Socco, En
Maria Solis, Do
Kristen Sorensen, Aq
Janai Southworth, HL Do
Tony Spadini, ID
Connie Spanier, HL Do
Patricia Sparling, Aq
Tanya Sparnicht, Ex
Pat Spencer, Do
Carol Spinali, Do
Tracie Spingarn, TP
Dimitri Spodine, Aq
Nancy Spriggs, DR
Danette St.Onge, Ex
Cecine Stadden, Bo
Christina Stahlkopf, CH TP DR
Ed Stambaugh, Aq
Kyle Standfield, TP
Barbara Stanton, Do
Cathleen Stark, Li
Christopher Steckel, Do HL
Ted Steffens, AE
Kathleen Steinberg, Do
Max Stepanian, Aq
Tanya Stepanian, Do
Tori Stephens, TP
Megan Stermer, SE Aq
Edgar Stone, Do
Ian Stone, Aq
Desy Stoyanov, Ex
Eric Strand, Aq
Mila Stroganoff, HL Do
Megan Stroud, CD
Helen Studebaker, Do TP
Sue Suarez, HL SE Do
Amelia Sugarman, Do TP
Micah Summers, TP
Alice Sunshine, PI
A Sustarich, Do HL
Shawn Sutherland, Aq
Joan Suzio, Do
Marc Swanson, Aq
Joshua Swartz, CD
Lani Swendsen, SE
Alan Swithenbank, BC
Isidore Szczepaniak, OM
Edith Tabak, BC
Nellie Taha, SE
Evangeline Tai, Ex
Marilena Tamburello, Ex
Mary Tarlecki, Aq
Josh Tarrant, TP
Bill Tergis, Do
Emily Terkelson, ID
Michael Terrien, BC IG
Scott Territo, Dp
Kristen Thomas, An
Geoffrey Thompson, EP Aq
Margot Timberlake, HL Do
Karen Titel, Do
Fujita Tomotake, Ex
Alice Tong, Do
Caitlyn Toropova, Aq
Louise Torraco, HL Do
Eric Tosaris, Do HL
Hue Tran, Ex
Carole Trapnell, Do
Malinda Trimble, TP
Jennifer Tucker, Cl Aq
Patricia Tucker, Do
Jay Tustin, CD
Kathleen Ungvarsky, An
William Urbani, Do HL
Jenny Uyemura, DR
Luke Vairo, Aq
Pam Van der Leeden, OM
Wendy Van Dusen, DR TP
Gloria Vasquez, Ed
Robert Venegas, IS
Joan Verdi, Do
Edward Vernon, Jr., Ex SE
Miguel Victorino, Aq
Kelly Vindhurst, Bo TP
Eleanor Visser, Os Do
Aaron Jan Vonk, He
Erica Voss, TP
Frank Vuong, Op
Beau Wada, Ed
William Wada, DO HL
Theresa Wagner, Ex
Melanie Walker, TP
Thomas Walker III, DR
Mia Waller, LS
Sara Warfield, Tp
Tamara Warren, Aq
Delcey Watkins, HL Do
Wesley Joseph Watkins IV, TP
Kathleen Watson, Cl Aq
Kurt Watson, BC
Jeremie Wattellier, PI Ed
Maggie Weadick, ID SE
Barbara Webber, HL Do DR
Merna Wechsler, SE
Bernard Weil, BC
Ruth Weine, SE Do
Anna Weisman, DR
Rebecca Wells, Ex
Terri Werner, IG
Ann Weybright, SE ID LS
Walter Weybright, SE
Julia White, TP
Katryn Wiese, HL Do
Alfred Wilcox, Do
Lori Wilder, Aq
Shelly Willard, BC
Jennifer Williamson, Bo
Marcella Williamson, HL Do
Claudia Wilsey-Gopp, TP
Douglas Wilson, HL Do
Michael Wing, TP
Rasmus Winther, IG
Warren Witter, He
Uli Wittmann, OM
Laura Wolfe-Wheeler, ID
Harold Wollenberg, Op IS
Barbara Ann Womack, Do TP HL
David Wong, TP ST
Edward Wong, TP
Howard Wong, AQ CD
Lillian Wong, HL Do
Joyce Wong-Beutel, LS
Robert Wright, BC TP
Jonathan Xiong, SE Mm Ed
Lisa Yager, Aq
Michael Yager, TP
Eric Yan, Ed
Angela Yang, DR
Elisa Yao, DR
Will Yavorsky, SE ID
May Yee, Dv
Kayo Yokota, Ex
Earl Yorkey, CD
Nyda Young, Bo
Tomme Young, BC
Connie Yu, DR
Kenneth Yu, TP
Sandy Yu, EM
Art Zacks, Do HL
Flora Zagorites, SE ID
Jerry Zagorites, Ex SE
Steven Zarit, CD AQ
Cay Zilka, Do

AE Academy Escort
An Anthropology
Aq Aquarium
BC Biodiversity Center
Bo Botany
CD Certified Diver
Cl Clerical
Do Docent
DR Discovery Room
Dv Development
Ed Education
EM Educational Media
En Entomology
Ex Exhibits
He Herpetology
HL Highlight Docent
Ic Ichthyology
ID Information Desk
IG Invertebrate, Zoology & Geology
IS Instrument Shop
JA Junior Academy
Li Library
LS Library Special Collection
Mm Membership
OM Ornithology & Mammalogy
Op Operations
Os Osher Laboratory
PD Pacific Discovery
Ph Photography
PI Public Information
Pl Plantarium
PP Public Programs
PW Pepperwood Ranch
SE Special Events
ST Star Trek
TP Tidepool

Scientific Publications of the Research Division

Susan Middleton

Dr. Nina Jablonski
Irvine Curator, Anthropology

ANTHROPOLOGY

Scientific Publications:

Chaplin, G., **Jablonski, N.G.**

Jablonski, N.G. 1995. The phyletic position and systematics of the douc langurs of southeast Aria. Amer. J. Primatol. 35185-205.

Jablonski, N.G. 1994. Convergent evolution in the dentitions of grazing macropodine marsupials and the grass-eating cercopithecine primate *Theropithecus gelada.* J. Roy. Soc. West. Aus. 77:37-43.

———. 1994. New fossil cercopithecid remains from the Humpata Plateau, southern Angola. Amer. J. Phys. Anthropol. 94:435-464.

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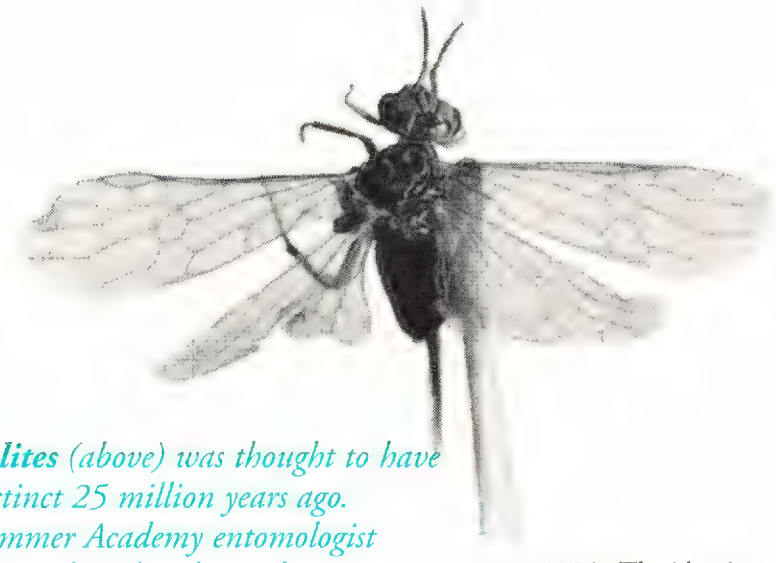

Susan Middleton

Pinicolites *(above) was thought to have gone extinct 25 million years ago. Last summer Academy entomologist* Dr. Wojciech Pulawski *and visiting colleague* Alexander Rasnitsyn *found two specimens of the subgenus in the Academy's collections.*

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———. 1994. Review of bivalved shells of the Red Sea [and] bivalves of Australia, Vol. I. The Veliger 37(3):322-323.

———. 1994. El Papel del aficionado en el desarrolo de la malacologia en el oesta de los Estado Unidos. Informativo da Sociedade Brasileira de Malacologia 25(112):3.

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———. 1994. El Papel del aficionado en el desarrolo de la malacologia en el oesta de los Estado Unidos. Informativo da Sociedade Brasileira de Malacologia 26(111):3.

DeMouthe, J.F. 1994. [Abstract] Solutions in foam: storing unusual and oddly shaped objects. Society for the Preservation of Natural History Collections, Annual Meeting June 1995, Toronto, Ontario, Canada. Program & Abstracts:16.

———. 1994. [Abstract] Gold mining in California and Nevada. International Mineralogical Symposium, Dec. 1994, Lisbon, Portugal, Programs and Abstracts:3.

———. 1994. [Abstract] An introduction to California Geology and Minerals. International Mineralogical Symposium, Dec. 1994, Lisbon, Portugal. Program and Abstracts:3.

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———. 1995. Collecting landsnails in Indonesia. Northern California Malacozoological Club Newsletter, Feb. 1995:2-4.

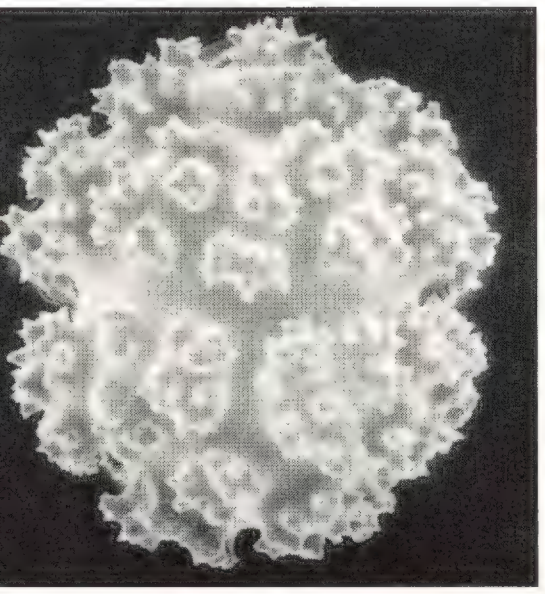
Ghiselin, M.T. 1994. The imaginary Lamarck: a look at bogus "history" in schoolbooks. Textbook Newsletter 5(4) September/October:6-8.

———. 1994. [Review of] The Correspondence of Charles Darwin, Volume 8. F. Burkhardt, D.M. Porter, J. Browne and M. Richmond. History and Philosophy of the Life Sciences 16:381-384.

GROWTH AND USE OF COLLECTIONS IN RESEARCH DEPARTMENTS

Fiscal Year 1994-1995

Department	Acquisitions	Loans	Research
	Total specimens accessioned	Total specimens loaned	Total visitors (Number of visitor days)
Anthropology	126	66	30
Aquatic Biology	n/a	n/a	n/a
Botany	22,000	7,084	616
Entomology	67,699	30,671	3,858
Herpetology	2,821	1,033	245
Ichthyology	223	3,826	185
Invertebrate Zoology & Geology	11,062	2,179	161
Ornithology & Mammalogy	347	668	1,048
TOTALS	104,278	45,527	6,143
TOTAL HOLDINGS IN ALL COLLECTIONS - as of June 30, 1995			14,987,769
PERCENTAGE OF GROWTH SINCE 1972 FOR ALL DEPARTMENTS			75.40%



Gary C. Williams

A scanning electron micrograph of a single skeletal element (known as a sclerite) of the soft coral Minabea cosmarioides from Transkei, South Africa. This calcium carbonate sclerite is 1/10th of a millimeter in length.

——-. 1994. [Review of] C. Groeben, K. Wenig, Anton Dohrn und Rudolf Virchow Briefwechsel. History and Philosophy of the Life Sciences 16:384.

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Rodda, P. 1994. Earth Science. Textbook Newsletter 5(4):9.

ORNITHOLOGY AND MAMMALOGY

Scientific Publications:

Baptista, L.F. 1994. Instinct and Imitation. Cultural Tradition in Birds. Pacific Discovery 47(4):8-15.

Baptista, L.F. 1994. A guide to the study of estrildid finches. The Estrildian 3:12-24.

Baptista, L.F. 1994. The role of aviculture in science and conservation. Avicult. Mag. 100(4):183-188.

Baptista, L.F. 1994. El Proyecto de Recuperacion de la Paloma de Socorro. Pp. 341-350 *in* The Biota of Isla Socorro. A. Ortega and A. Castellano Vera, Eds.

DeWolfe, B. B., and **L.F. Baptista.** 1995. Singing behavior, song types on their wintering grounds and the question of leap-frog migration in Puget Sound White-crowned Sparrows *Zonotrichia leucophrys pugetensis.* Condor 97:376-389.

Jesse. **A.J.** 1994. Natural History Museum Collections and Conservation Biology. Intersci. Fall issue.

OSHER LABORATORY FOR MOLECULAR SYSTEMATICS

Scientific Publications:

de Queiroz, A. and **R. Lawson.** 1994. Phylogenetic relationships of the garter snakes based on DNA sequence and allozyme variation. Biol. J. Linn. Soc. 53:209-229.

Lance, V.A., T. Cort, J. Masuoka, **R. Lawson** and P. Saltman. 1995. Unusually high zinc concentrations in snake plasma, with observations on plasma zinc concentrations in lizards, turtles and alligators. J. Zool., Lond. 235:577-585.

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Tam, S., **B. Huey,** Y. Li, G.M. Lui, D.G. Hwang, M. Lantz, T.L. Weiss, C.A. Hunt and R. Garovoy. 1994. Suppression of interferon- induction of MCH class II and ICAM-1 by a 26-base oligonucleotide composed of deoxyguanosine and deoxythymidine. Transplantation Immunol. 2:285-292.

Abstracts, Reviews and Popular Publications:

Jameson, D.L. 1994. It's tried and mostly true but it could be a lot better. [Review of] Biological Sciences, A Molecular Approach, Sixth Edition. D.C. Heath & Co. Lexington, Mass. The Textbook Letter.

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Deputy Director for External Affairs
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Dong Lin

Francisco Hernandez *of the Education Department brings the Supervan Community Outreach program to the SF Recreation & Parks Department Helen Wills latchkey site.*

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Scientific Publications

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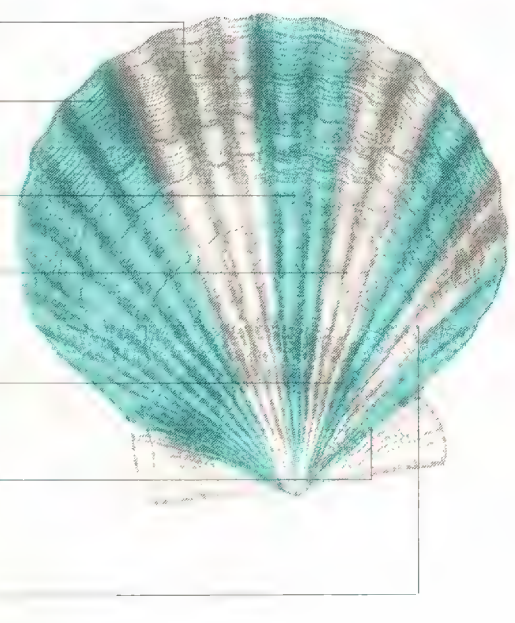
Balance Sheet

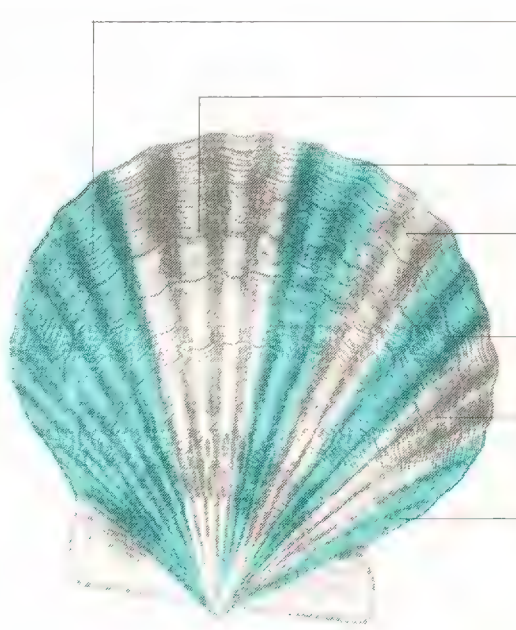
June 30, 1995
(with comparative totals for 1994)

	Current fund			Endowment	Total all funds	
	General Operating	Restricted	Plant Funds	and Similar Funds	1995	1994
ASSETS						
Cash and cash equivalents	$ 482,816	—	9,292	—	492,108	976,424
Receivables:						
Research grants	—	988,832	—	—	988,832	824,488
Accrued interest and dividends	406,845	—	—	—	406,845	395,317
Other	134,583	850	194,391	—	329,824	195,076
Inventory	305,880	—	—	—	305,880	368,148
Prepaid expenses	326,474	1,000	—	—	327,474	390,525
Investments in marketable securities	—	2,498,401	275,000	60,273,113	63,046,514	59,625,500
Property and equipment, less accumulated depreciation	—	—	34,321,271	—	34,321,271	33,419,388
Due from (to) other funds	(716,513)	(190,323)	2,986	903,850	—	—
TOTAL ASSETS	$ 940,085	3,298,760	34,802,940	61,176,963	100,218,748	96,194,866
LIABILITIES AND FUND BALANCES						
Liabilities:						
Accrued expenses and other liabilities	$ 850,009	46,605	4,426	34,054	935,094	1,447,908
Deferred grant revenue	—	953,774	—	—	953,774	640,992
Deferred income	90,076	—	—	—	90,076	71,710
TOTAL LIABILITIES	940,085	1,000,379	4,426	34,054	1,978,944	2,160,610
Fund balances:						
Restricted	—	2,298,381	477,243	—	2,775,624	2,818,542
Endowment and similar funds:						
Unrestricted - undesignated	—	—	—	28,723,662	28,723,662	28,552,800
Unrestricted - designated	—	—	—	19,292,593	19,292,593	17,730,818
Permanently restricted	—	—	—	13,126,654	13,126,654	11,512,708
Net investment in plant	—	—	34,321,271	—	34,321,271	33,419,388
	—	2,298,381	34,798,514	61,142,909	98,239,804	94,034,256
TOTAL LIABILITIES AND FUND BALANCES	$ 940,085	3,298,760	34,802,940	61,176,963	100,218,748	96,194,866

REVENUES

Admissions	$3,136,905	20%
Endowment	$5,016,940	31%
Contributions/ Memberships	$2,641,793	17%
Auxiliary	$1,955,068	12%
City & County of San Francisco	$1,549,575	10%
Government Grants	$665,550	4%
Tuition & Program Fees	$898,037	6%





EXPENSES

Public Programs	$4,260,001	27%
Research	$4,011,127	25%
Aquarium	$2,338,815	15%
Auxiliary	$1,463,808	9%
Development & Membership	$1,671,584	10%
Management & General	$1,545,994	10%
Capital	$573,616	4%

Statement of Activity and Changes in Fund Balances

Year ended June 30, 1995
(with comparative totals for 1994)

	Current funds				Total all funds	
	General Operating	Restricted	Plant Funds	Endowment and Similar Funds	1995	1994
Support and revenue						
Admissions	$ 3,136,905	—	—	—	3,136,905	3,647,436
Contributions	1,260,300	515,631	—	—	1,775,931	1,877,320
Memberships	865,137	725	—	—	865,862	920,219
Tuition and program fees	830,703	67,334	—	—	898,037	970,064
Auxiliary activities	1,925,356	29,712	—	—	1,955,068	2,347,384
Government grant income	488	665,062	—	—	665,550	963,885
City and County of San Francisco	1,535,575	14,000	—	—	1,549,575	1,553,452
Investment and endowment income	2,073,178	302,309	—	—	2,375,487	2,147,872
Total support and revenue	11,627,642	1,594,773	—	—	13,222,415	14,427,632
Expense						
Research	3,370,715	640,412	—	—	4,011,127	3,915,947
Public programs	4,096,411	163,590	—	—	4,260,001	4,477,846
Aquarium	2,238,984	99,831	—	—	2,338,815	2,137,285
Development and membership	1,668,758	2,826	—	—	1,671,584	1,624,280
Auxiliary activities	1,463,808	—	—	—	1,463,808	1,660,206
Management and general	1,489,774	56,220	—	—	1,545,994	1,404,992
Government grant overhead cost reimbursement	(146,702)	146,702	—	—	—	—
Depreciation expense	—	—	1,381,543	—	1,381,543	1,364,349
Total operating expense	14,181,748	1,109,581	1,381,543	—	16,672,872	16,584,905
Excess (deficiency) of support and revenue over operating expense before capital transactions and transfers	(2,554,106)	485,192	(1,381,543)	—	(3,450,457)	(2,157,273)
Capital transactions						
Interest and dividends	—	—	14,141	—	14,141	19,667
Net gain on sale of assets	—	—	633,853	3,143,410	3,777,263	3,508,561
Grants and donations	—	—	93,156	3,175,721	3,268,877	1,834,835
City and County of San Francisco	—	—	595,724	—	595,724	802,109
Total capital transactions	—	—	1,336,874	6,319,131	7,656,005	6,165,172
Excess (deficiency) of support and revenues over expenses	(2,554,106)	485,192	(44,669)	6,319,131	4,205,548	4,007,899
Fund balances, beginning of year	—	2,299,458	33,938,472	57,796,326	94,034,256	90,026,357
Acquisitions of property and equipment	(343,614)	(230,002)	573,616	—	—	—
Endowment allocation	2,582,224	34,573	355,751	(2,972,548)	—	—
Fund transfers	315,496	(290,840)	(24,656)	—	—	—
Fund balances, end of year	$ —	2,298,381	34,798,514	61,142,909	98,239,804	94,034,256

This information on these pages has been summarized from audited statements, copies of which are available upon request from the Office of the Executive Director.

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